CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/PK/W.No.15/CSR-05/337e/CEMENT/2017-18 Date: 18.05.2017

TEST REPORT ON CEMENT

*** Customer**	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. Pavankumar** No.45, 3rd block, 3rd stage, S GHalli, Basaveshwaranagara Bangalore-79.
*** Name of Work**	:	Improvements and construction of CC drainage works back side of St Mary's school 1st cross in Dasarahalli in Ward No.15,Dasarahalli sub division, BBMP, Bangalore.
*** Reference**	:	BBMP/DZ/AEE/TDSD/PR/33/2017-18 Dated: 16.05.2017
*** Sample ID**	:	Cement – Sample 1
Sample Received on	:	16.05.2017
Period of Testing	:	16.05.2017 to 18.05.2017

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	27.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	185 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	490 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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VIDYARANI P.K.
Technical Manager

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ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
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Job No.: CTCE/BBMP/PK/W.No.15/CSR-05/337e/SAND-Gradation/2017-18 18.05.2017

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	: **Mr. Pavankumar** No.45, 3rd block,3rd stage, S GHalli, Basaveshwaranagara Bangalore-79.
* Name of Work	: Improvements and construction of CC drainage works back side of St Mary's school 1st cross in Dasarahalli in Ward No.15,Dasarahalli sub division, BBMP, Bangalore.
* Reference	: BBMP/DZ/AEE/TDSD/PR/33/2017-18 Dated: 16.05.2017
* Sample ID	: Fine Aggregates - Sample 1
Technical Reference	: IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	: 16.05.2017
Date of Testing	: 18.05.2017

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	94.40	90-100	90-100	90-100	95-100
2.36	81.20	60-95	75-100	85-100	95-100
1.18	59.80	30-70	55-90	75-100	90-100
600 Micron	31.20	15-34	35-59	60-79	80-100
300 Micron	12.70	5-20	8-30	12-40	15-50
150 Micron	3.20	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.:CTCE/BBMP/PK/W.No.15/CSR-05/337e/AGG/GR/2017-18 18.05.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Pavankumar** No.45, 3rd block,3rd stage, S GHalli, Basaveshwaranagara Bangalore-79.
* Name of Work	:	Improvements and construction of CC drainage works back side of St Mary's school 1st cross in Dasarahalli in Ward No.15,Dasarahalli sub division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/33/2017-18 Dated: 16.05.2017
* Sample ID	:	Coarse Aggregates (40mm) – Sample 1
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	16.05.2017
Date of Testing	:	18.05.2017

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.64	95-100	85-100
20	36.22	30-70	0-20
10	15.76	10-35	0-5
4.75	2.76	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/PK/W.No.15/CSR-05/337e/AGG/GR/2017-18 18.05.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Pavankumar** No.45, 3rd block,3rd stage, S GHalli, Basaveshwaranagara Bangalore-79.
* Name of Work	:	Improvements and construction of CC drainage works back side of St Mary's school 1st cross in Dasarahalli in Ward No.15,Dasarahalli sub division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/33/2017-18 Dated: 16.05.2017
* Sample ID	:	Coarse Aggregates (20mm) – Sample 1
Technical Reference	:	IS : 2386 (Part 1) -1963(RA-2011)
Sample Received on	:	16.05.2017
Date of Testing	:	18.05.2017

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2011)	
		Graded	Single Sized
40	100	100	100
20	97.42	95-100	85-100
10	30.38	25-55	0-20
4.75	5.58	0-10	0-5

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Remarks : This sample is under Graded specific limits

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Job No.: CTCE/BBMP/PK/W.No.15/Steel/2017-18 19.05.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Pavankumar** No.45, 3rd block,3rd stage, S GHalli, Basaveshwaranagara Bangalore-79.
* Name of work	:	Improvements and construction of CC drainage works back side of St Mary's school 1st cross in Dasarahalli in Ward No.15,Dasarahalli sub division, BBMP, Bangalore.
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	19.05.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	512	553	13.30	O.K	O.K

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/PK/W.No.15/Steel/2017-18

19.05.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Pavankumar** No.45, 3rd block,3rd stage, S GHalli, Basaveshwaranagara Bangalore-79.
* Name of work	:	Improvements and construction of CC drainage works back side of St Mary's school 1st cross in Dasarahalli in Ward No.15,Dasarahalli sub division, BBMP, Bangalore.
* Samples ID	:	12 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	19.05.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	12	0.89	514	555	13.55	O.K	O.K

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Job No.: CTCE/BBMP/PK/W.No.15/Steel/2017-18

19.05.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Pavankumar** No.45, 3rd block,3rd stage, S GHalli, Basaveshwaranagara Bangalore-79.
* Name of work	:	Improvements and construction of CC drainage works back side of St Mary's school 1st cross in Dasarahalli in Ward No.15,Dasarahalli sub division, BBMP, Bangalore.
* Samples ID	:	16 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	19.05.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	16	1.58	520	562	13.70	O.K	O.K

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T-2377

Job No.: CTCE/BBMP/PK/W.No.15/CSR-05/337e/Cube/2017-18 19.06.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Pavankumar** No.45, 3rd block,3rd stage, S GHalli, Basaveshwaranagara Bangalore-79.
* Name of the work	:	Improvements and construction of CC drainage works back side of St Mary's school 1st cross in Dasarahalli in Ward No.15,Dasarahalli sub division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/33/2017-18 Dated: 16.05.2017
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	19.06.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.05.2017	19.06.2017	8.264	493.2	21.92
2	22.05.2017	19.06.2017	8.318	500.3	22.24
3	22.05.2017	19.06.2017	8.462	510.8	22.70

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Job No.: CTCE/BBMP/PK/W.No.15/CSR-05/337e/Cube/2017-18

19.06.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Pavankumar** No.45, 3rd block,3rd stage, S GHalli, Basaveshwaranagara Bangalore-79.
* Name of the work	:	Improvements and construction of CC drainage works back side of St Mary's school 1st cross in Dasarahalli in Ward No.15,Dasarahalli sub division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/33/2017-18 Dated: 16.05.2017
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	19.06.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.05.2017	19.06.2017	8.125	500.7	22.25
2	22.05.2017	19.06.2017	8.237	517.2	22.99
3	22.05.2017	19.06.2017	8.324	522.4	23.22

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Job No.: CTCE/BBMP/PK/W.No.15/CSR-05/337e/Cube/2017-18 21.06.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Pavankumar** No.45, 3rd block,3rd stage, S GHalli, Basaveshwaranagara Bangalore-79.
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* Reference	:	BBMP/DZ/AEE/TDSD/PR/33/2017-18 Dated: 16.05.2017
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	21.06.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.05.2017	21.06.2017	8.064	488.3	21.70
2	24.05.2017	21.06.2017	8.127	523.4	23.26
3	24.05.2017	21.06.2017	8.268	530.2	23.56

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Job No.: CTCE/BBMP/PK/W.No.15/CSR-05/337e/Cube/2017-18 21.06.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Pavankumar** No.45, 3rd block,3rd stage, S GHalli, Basaveshwaranagara Bangalore-79.
* Name of the work	:	Improvements and construction of CC drainage works back side of St Mary's school 1st cross in Dasarahalli in Ward No.15,Dasarahalli sub division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/33/2017-18 Dated: 16.05.2017
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Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	21.06.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.05.2017	21.06.2017	8.154	492.8	21.90
2	24.05.2017	21.06.2017	8.238	506.8	22.52
3	24.05.2017	21.06.2017	8.317	487.9	21.68

*Information is furnished by the Customer/Representative.

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Note:

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VIDYARANI P.K.
Technical Manager

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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/PK/W.No.15/CSR-05/337e/Cube/2017-18

24.06.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Pavankumar** No.45, 3rd block,3rd stage, S GHalli, Basaveshwaranagara Bangalore-79.
* Name of the work	:	Improvements and construction of CC drainage works back side of St Mary's school 1st cross in Dasarahalli in Ward No.15,Dasarahalli sub division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/33/2017-18 Dated: 16.05.2017
* Sample ID	:	Culvert Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	24.06.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.05.2017	24.06.2017	8.224	499.2	22.19
2	27.05.2017	24.06.2017	8.317	511.4	22.73
3	27.05.2017	24.06.2017	8.468	520.1	23.12

*Information is furnished by the Customer/Representative.

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Pavankumar** No.45, 3rd block,3rd stage, S GHalli, Basaveshwaranagara Bangalore-79.
* Name of the work	:	Improvements and construction of CC drainage works back side of St Mary's school 1st cross in Dasarahalli in Ward No.15,Dasarahalli sub division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/33/2017-18 Dated: 16.05.2017
* Sample ID	:	Culvert Deck Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	27.06.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.05.2017	27.06.2017	8.193	495.6	22.03
2	30.05.2017	27.06.2017	8.247	524.8	23.32
3	30.05.2017	27.06.2017	8.319	513.5	22.82

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29.06.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Pavankumar** No.45, 3rd block,3rd stage, S GHalli, Basaveshwaranagara Bangalore-79.
* Name of the work	:	Improvements and construction of CC drainage works back side of St Mary's school 1st cross in Dasarahalli in Ward No.15,Dasarahalli sub division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/33/2017-18 Dated: 16.05.2017
* Sample ID	:	Road Side Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	29.06.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.06.2017	29.06.2017	8.094	505.1	22.45
2	01.06.2017	29.06.2017	8.154	493.2	21.92
3	01.06.2017	29.06.2017	8.268	486.9	21.64

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Job No.: CTCE/BBMP/PK/W.No.15/CSR-05/337e/Pre Slab/2017-18

08.06.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Asst. Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Pavankumar** No.45, 3rd block,3rd stage, S GHalli, Basaveshwaranagara Bangalore-79.
* Name of work	:	Improvements and construction of CC drainage works back side of St Mary's school 1st cross in Dasarahalli in Ward No.15,Dasarahalli sub division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/33/2017-18 Dated: 16.05.2017
* Sample ID	:	Precast Slab
* Grade of Concrete	:	M_{20}
Techinical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	03.06.2017
Date of Testing	:	08.06.2017

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	79.00	0.399	2572.27	1.58	0.955	33.48	16.58	17.91	18.76	23.45
2	50.00	81.00	0.406	2552.77	1.62	0.959	35.41	17.62	19.03	18.25	22.81
3	50.00	82.00	0.408	2534.06	1.64	0.961	33.57	17.95	19.39	18.63	23.29

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